

Title (en)
WEIGHING SCALE WITH EXTENDED FUNCTIONS

Title (de)
WAAGE MIT ERWEITERTEN FUNKTIONEN

Title (fr)
BALANCE DE PESAGE À FONCTIONS ÉTENDUES

Publication
EP 3095380 A2 20161123 (EN)

Application
EP 16167797 A 20160429

Priority
US 201514701054 A 20150430

Abstract (en)
Methods of determination of the blood pressure, determination of a heart stroke volume, determination of the state of stress or relaxation of a user, with use of a ballistocardiogram signal (21) reflecting the user's heart beats, with a measure of characteristic amplitude of ballistocardiogram signal, and measure for each couple of consecutive heart beats, beat time intervals DeltaHB(i) between successive heart beats, extracted from a ballistocardiogram signal (21) or from an impedance plethysmography signal measured at the user's foot, leading to determination of a heart rate variability index, over at least six successive heart beats, , leading to determination of mean arterial pressure, leading to determination of state of relaxation or stress of the user.

IPC 8 full level
A61B 5/00 (2006.01); **A61B 5/021** (2006.01); **A61B 5/022** (2006.01); **A61B 5/0295** (2006.01); **A61B 5/053** (2006.01); **A61B 5/11** (2006.01); **G01G 19/50** (2006.01)

CPC (source: EP US)
A61B 5/02007 (2013.01 - US); **A61B 5/02028** (2013.01 - US); **A61B 5/0205** (2013.01 - US); **A61B 5/02125** (2013.01 - EP US); **A61B 5/022** (2013.01 - EP US); **A61B 5/0295** (2013.01 - EP US); **A61B 5/0535** (2013.01 - EP); **A61B 5/1102** (2013.01 - EP US); **A61B 5/6801** (2013.01 - US); **A61B 5/6887** (2013.01 - EP US); **A61B 5/6892** (2013.01 - US); **G01G 19/50** (2013.01 - EP US)

Citation (applicant)
• US 8639226 B2 20140128 - HUTCHINGS CEDRIC [FR], et al
• WO 2014106716 A1 20140710 - WITHINGS [FR]
• US 2013310700 A1 20131121 - WIARD RICHARD M [US], et al
• US 2014309541 A1 20141016 - YAMASHITA YUKI [JP], et al

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FR3131523A1; FR3131524A1; EP4248855A1; WO2023126220A1; FR3131521A1; EP3375358A1; WO2018167362A1; FR3131522A1; EP4248854A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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